SunLong Biotech Co.,LTD
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# Recombinant Dentin Sialophosphoprotein (DSPP)

**Catalog Number: SIPC959Hu01** **Spec: 50ug**

| | |
|---|---|
| **Product Name** | Recombinant Dentin Sialophosphoprotein (DSPP) |
| **Catalog Number** | SIPC959Hu01 |
| **Organism Species** | Human |
| **Source** | Prokaryotic expression |
| **Host** | E.coli |
| **Residues** | Gly82~Glu326 |
| **Tags** | N-terminal His Tag |
| **Subcellular Location** | Secreted, Extracellular matrix |
| **Purity** | > 90% |
| **Traits** | Freeze-dried powder |
| **Buffer formulation** | PBS, pH7.4, containing 0.01% Sarcosyl, 5% Trehalose. |
| **Original Concentration** | 250μg/mL |
| **Applications** | Positive Control; Immunogen; SDS-PAGE; WB. (May be suitable for use in other assays to be determined by the end user.) |
| **Predicted isoelectric point** | 4.1 |
| **Predicted Molecular Mass** | 29.3kDa |
| **Accurate Molecular Mass** | 36kDa as determined by SDS-PAGE reducing conditions. |
| **Phenomenon explanation** | The possible reasons that the actual band size differs from the predicted are as follows: 1.Splice variants: Alternative splicing may create different sized proteins from the same gene. 2. Relative charge: The composition of amino acids may affects the charge of the protein. 3. Post-translational modification: Phosphorylation, glycosylation, methylation etc. 4. Post-translation cleavage: Many proteins are synthesized as pro-proteins, and then cleaved to give the active form. 5. Polymerization of the target protein: Dimerization, multimerization etc. |

**[ USAGE ]**

Reconstitute in 10mM PBS (pH7.4) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

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**[ STORAGE AND STABILITY ]**

**Storage:** Avoid repeated freeze/thaw cycles.

Store at 2-8ºC for one month.

Aliquot and store at -80ºC for 12 months.

**Stability Test:** The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.

**[ SEQUENCE ]**

GSKWAEVGG KSFSTYSTLA
NEEGNIEGWN GDTGKAETYG HDGIHGKEEN ITANGIQGQV SIIDNAGATN
RSNTNGNTDK NTQNGDVGDA GHNEDVAVVQ EDGPQVAGSN NSTDNEDEII
ENSCRNEGNT SEITPQINSK RNGTKEAEVT PGTGEDAGLD NSDGSPSGNG
ADEDEDEGSG DDEDEEAGNG KDSSNNSKGQ EGQDHGKEDD HDSSIGQNSD
SKEYYDPEGK EDPHNEVDGD KTSKSE

**[ IDENTIFICATION ]**

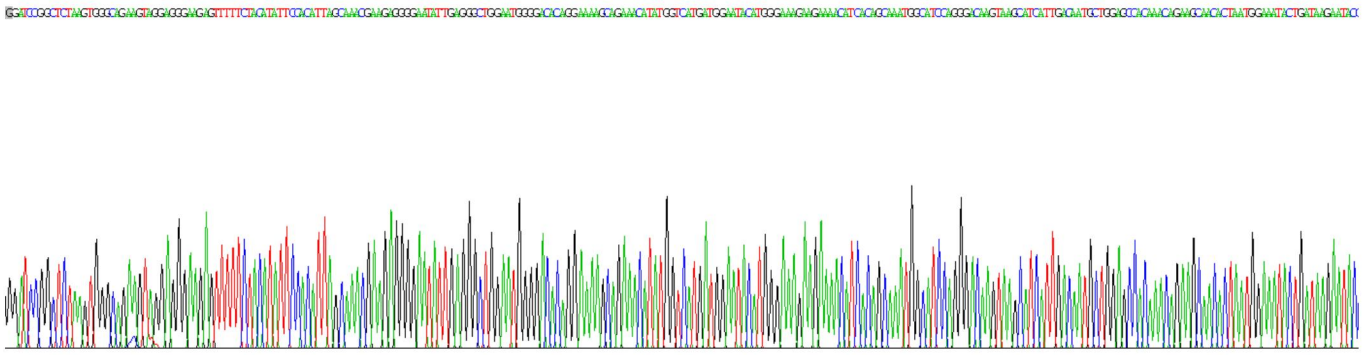


Figure . Gene Sequencing (extract)

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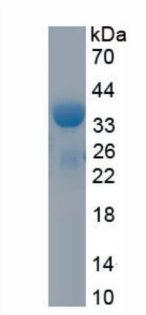



Figure. SDS-PAGE

**[ IMPORTANT NOTE ]**

The kit is designed for research use only, we will not be responsible for any issue if the kit was used in clinical diagnostic or any other procedures.